FIG. 1

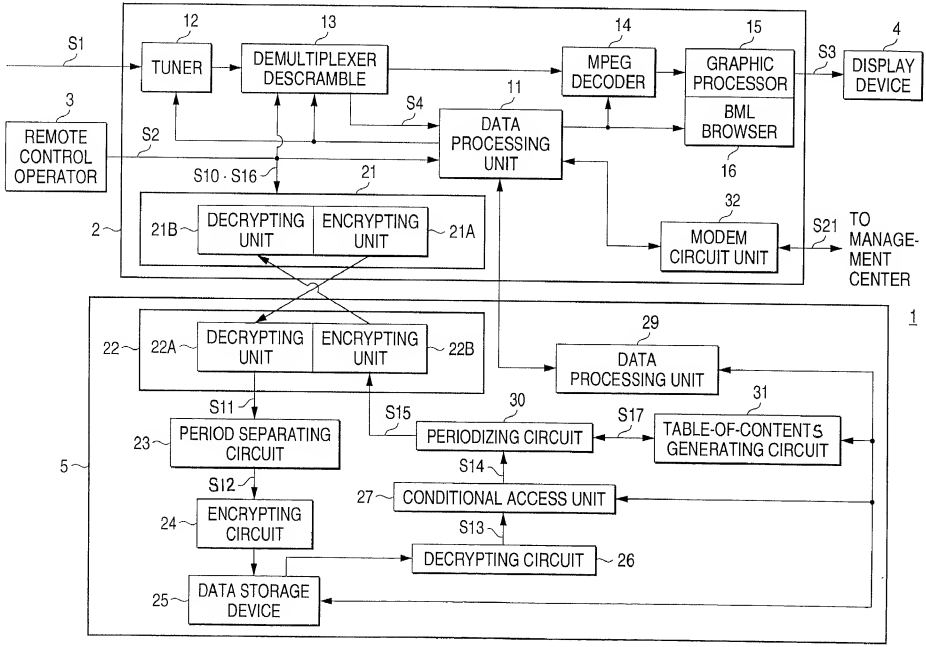
S1
12
TUNER
13
DEMULTIPLEXER DESCRAMBLE
14
MPEG DECODER
15
GRAPHIC PROCESSOR
BML BROWSER
16
S3
4
DISPLAY DEVICE
3
REMOTE CONTROL OPERATOR
S2
S4
11
DATA PROCESSING UNIT
S10 · S16
21
2
21B
DECRYPTING UNIT
ENCRYPTING UNIT
21A
32
MODEM CIRCUIT UNIT
S21
TO MANAGEMENT CENTER
1
22
22A
DECRYPTING UNIT
ENCRYPTING UNIT
22B
29
DATA PROCESSING UNIT
S11
S15
30
S17
31
PERIOD SEPARATING CIRCUIT
PERIODIZING CIRCUIT
TABLE-OF-CONTENTS GENERATING CIRCUIT
23
5
S14
S12
27
CONDITIONAL ACCESS UNIT
24
ENCRYPTING CIRCUIT
S13
DECRYPTING CIRCUIT
26
25
DATA STORAGE DEVICE

FIG. 2

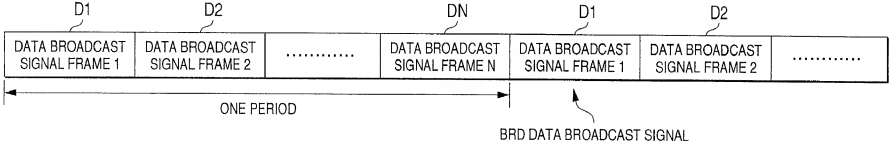
D1
D2
DN
D1
D2
DATA BROADCAST SIGNAL FRAME 1
DATA BROADCAST SIGNAL FRAME 2
.....
DATA BROADCAST SIGNAL FRAME N
DATA BROADCAST SIGNAL FRAME 1
DATA BROADCAST SIGNAL FRAME 2
.....
ONE PERIOD
BRD DATA BROADCAST SIGNAL

FIG. 3

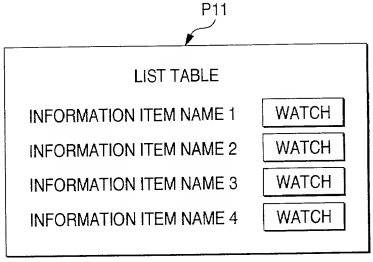

FIG. 4

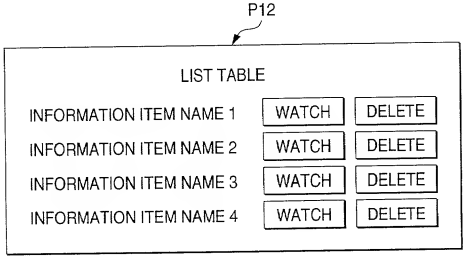

FIG. 5A

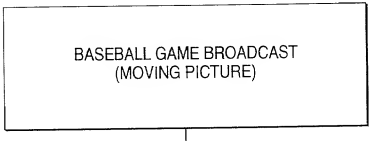
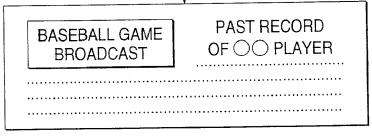
FIG. 5B